AREAL GEOLOGY EXPLANATION DEPARTMENT OF THE INTERIOR SEDIMENTARY ROCKS FRANKLIN K. LANE, SECRETARY STATE OF MARYLAND (Areas of subaqueous deposits are shown by patterns of parallel line subaerial deposits by patterns of dots and circles) U.S. GEOLOGICAL SURVEY GEORGE OTIS SMITH, DIRECTOR MARYLAND-DELAWARE-PENNSYLVANIA EDWARD B. MATHEWS ELKTON QUADRANGLE STATE GEOLOGIST WKW) Qt FRANKLIN KONDON Talbot formation (loam, sand, and gravel, with clay tenses and toe-borne bowlders; forms terraces and lowlands from 0 to 45 feet above sea level) NOTTINGHAM UNCONFORMITY Wicomico formation (loam, sand, and gravel, with toe-borne bowlders; covers rolling terraces and divides from 40 to 100 feet above sea level) CHESTER COL UNCONFORMITY Loubard AND Fairview Sunderland formation ben UNCONFORMITY N O. 4 bgn Brandywine formation (coarse sand loam, and gravel, covers divides from 180 to 300 feet above sea level) BMCalvert Blueball UNCONFORMITY NQ. 9 Monmouth formation (reddish-brown to greenish-black sand with many iron crusts) Matawan formation UNCONFORMITY Pleasant Hill Newark St Kma Barksdale Cherry Hill UNCONFORMITY Kr Raritan formation (variegated clay, sand, and gravel, with some lignite) Chestnot Hill UNCONFORMITY Kpt Patapsco formation

(highly-colored variegated clay interbedded with sand and gravel) UNCONFORMITY Patuxent formation PRE-CAMBRIAN SEDIMENTARY AND IGNEOUS ROCKS (metamorphism is in dicated by hachures) Elkton B.M. Pegmatite dikes
(coarsely crystalline quart
feldspar-mica rock) Bacon Hill WASHINGTE Serpentine, steatite, and associated alteration products (metapyrowenite and HOG Gabbro
(quartz gabbro, gabbro
persthene gabbro, horr
gabbro, olivine gabbr Metadacite grd Granodiorite Hance Pt wgn Wissahickon CREEK mica gneiss bgn Roach Pt Baltimore gneiss
(banded quarte feldsparbiotite rock) IGNEOUS ROCKS Мв White Pt Diabase dikes Red Pt. Lesapeake City ECONOMIC AND STRUCTURE DATA E R Quarries and mines
Stone, quarts, feldspar,
kaolin, and iron.
Iron mines and some quarries
are at present abandoned. & Gravel, sand, and clay pits Piney Cove Oldfield Pt TOWN PT W OT TOWN POINT Neck 1600'
H.M.Wilson, Geographer in charge.
Triangulation by U.S.Coast and Geodetic Survey and H.S.Wallace.
Shore line by U.S.Coast and Geodetic Survey.
Topography by H.S.Wallace, J.W.Thom and Albert Pike.
Surveyed in 1896 in cooperation with the States of Maryland and Pennsylvania. (Dover 125000) Geology of Coastal Plain by B.L.Miller. Geology of the crystalline rocks by F. Bascom. Surveyed in 1900-1913. 4 Miles 5 Kilometers SURVEYED IN COOPERATION WITH THE STATE OF MARYLAND. Contour interval 20 feet. Datum is mean sea level. APPROXIMATE MEAN DECLINATION 1917. Note: Structure section along line A-A' is illustrated in the text. Edition of April 1920